

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-3 (cancelled)

1 **Claim 4 (currently amended):** A magnetron drive power
2 supply comprising a commercial power supply, a high-
3 frequency inverter for converting electric power of the
4 commercial power supply into high-frequency power and
5 supplying the high-frequency power to a high-voltage
6 transformer, a high-voltage rectification circuit and a
7 magnetron being connected to secondary output of the high-
8 voltage transformer, a ~~voltage detecting~~ means to ~~detect~~
9 monitor the voltage of the commercial power supply
10 comprising an input current detector which detects a
11 current value of the high-frequency inverter, and
12 controller for controlling the high-frequency inverter,
13 characterized in that if the detection value of the input
14 current detector has a predetermined difference from a
15 target value continuously for a given time, the controller
16 stops the high-frequency inverter.

1 **Claim 5 (original):** The magnetron drive power supply
2 as claimed in claim 4 wherein the predetermined difference

3 between the detection value of the input current detector
4 and the target value is set in response to the target
5 value.